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NEWS 1	1	Web Page for STN Seminar Schedule - N. America
NEWS 2	2	JAN 02 STN pricing information for 2008 now available
NEWS 3	3	JAN 16 CAS patent coverage enhanced to include exemplified prophetic substances
NEWS 4	4	JAN 28 USPATFULL, USPAT2, and USPATOLD enhanced with new custom IPC display formats
NEWS 5	5	JAN 28 MARPAT searching enhanced
NEWS 6	6	JAN 28 USGENE now provides USPTO sequence data within 3 days of publication
NEWS 7	7	JAN 28 TOXCENTER enhanced with reloaded MEDLINE segment
NEWS 8	8	JAN 28 MEDLINE and LMEDLINE reloaded with enhancements
NEWS 9	9	FEB 08 STN Express, Version 8.3, now available
NEWS 10	10	FEB 20 PCI now available as a replacement to DPCI
NEWS 11	11	FEB 25 IFIREF reloaded with enhancements
NEWS 12	12	FEB 25 IMSPRODUCT reloaded with enhancements
NEWS 13	13	FEB 29 WPINDEX/WPIDS/WPIX enhanced with ECLA and current U.S. National Patent Classification
NEWS 14	14	MAR 31 IFICDB, IFIPAT, and IFIUDB enhanced with new custom IPC display formats
NEWS 15	15	MAR 31 CAS REGISTRY enhanced with additional experimental spectra
NEWS 16	16	MAR 31 CA/CAplus and CASREACT patent number format for U.S. applications updated
NEWS 17	17	MAR 31 LPCI now available as a replacement to LDPCI
NEWS 18	18	MAR 31 EMBASE, EMBAL, and LEMBASE reloaded with enhancements
NEWS 19	19	APR 04 STN AnaVist, Version 1, to be discontinued
NEWS 20	20	APR 15 WPIDS, WPINDEX, and WPIX enhanced with new predefined hit display formats
NEWS 21	21	APR 28 EMBASE Controlled Term thesaurus enhanced
NEWS 22	22	APR 28 IMSRESEARCH reloaded with enhancements
NEWS 23	23	MAY 30 INPAFAMDB now available on STN for patent family searching
NEWS 24	24	MAY 30 DGENE, PCTGEN, and USGENE enhanced with new homology sequence search option

NEWS EXPRESS FEBRUARY 08 CURRENT WINDOWS VERSION IS V8.3,
AND CURRENT DISCOVER FILE IS DATED 20 FEBRUARY 2008

NEWS HOURS STN Operating Hours Plus Help Desk Availability
NEWS LOGIN Welcome Banner and News Items
NEWS IPC8 For general information regarding STN implementation of IPC 8

Enter NEWS followed by the item number or name to see news on that specific topic.

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FILE 'HOME' ENTERED AT 11:58:57 ON 05 JUN 2008

=> index bioscience medicine
FILE 'DRUGMONOG' ACCESS NOT AUTHORIZED
COST IN U.S. DOLLARS

FULL ESTIMATED COST

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:59:20 ON 05 JUN 2008

72 FILES IN THE FILE LIST IN STNINDEX

Enter SET DETAIL ON to see search term postings or to view search error messages that display as 0* with SET DETAIL OFF.

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=> s dicer? or(dsrna?(s)(degrad? or cleav?)) or
((doubl?(s)strand?(s)rna?)(s)(degrad? or cleav?)) or (herna?(s)(degrad? or cleav?))
 1  FILE ADISCTI
 8  FILE ADISINSIGHT
368  FILE AGRICOLA
 1  FILE ANABSTR
 8  FILE ANTE
 2  FILE AQUALINE
86  FILE AQUASCI
236  FILE BIOENG
2334 FILE BIOSIS
1314 FILE BIOTECHABS
1314 FILE BIOTECHDHS
 660 FILE BIOTECHNO
13 FILES SEARCHED...
 729 FILE CABA
1956 FILE CAPLUS
 30 FILE CEABA-VTB
 10 FILE CIN
 32 FILE CONFSCI
  1 FILE CROPB
  6 FILE CROPU
  5 FILE DDFB
 33 FILE DDFU
69145 FILE DGENE
23 FILES SEARCHED...
 212 FILE DISSABS
  5 FILE DRUGB
 87 FILE DRUGU
 38 FILE EMBAL
1036 FILE EMBASE
1361 FILE ESBIOBASE
 70 FILE FROSTI
 31 FILE FSTA
24883 FILE GENBANK
35 FILES SEARCHED...
 1  FILE HEALSAFE
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852  FILE IFIPAT
  1  FILE IMSPRODUCT
  1  FILE IMSRESEARCH
1510  FILE LIFESCI
1301  FILE MEDLINE
  16 FILE NTIS
  21 FILE OCEAN
  626 FILE PASCAL
 113 FILE PCTGEN
  1 FILE PHAR
  1 FILE PHARMAML
  14 FILE PHIN
 402 FILE PROMT
53 FILES SEARCHED...
  1 FILE RDISCLOSURE
1729  FILE SCISEARCH
  281 FILE TOXCENTER
 5100 FILE USGENE
12510 FILE USPATFULL
  212 FILE USPATOLD
 1890 FILE USPAT2
  2 FILE VETB
  15 FILE VETU
  6 FILE WATER
1171  FILE WPIDS
  14 FILE WPIFV
 1171  FILE WPINDEX
69 FILES SEARCHED...
  11 FILE IPA
   6 FILE NAPRALERT
  97 FILE NLDB

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61 FILES HAVE ONE OR MORE ANSWERS, 72 FILES SEARCHED IN STNINDEX

L1 QUE DICER? OR(DSRNA?(S) (DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAND?(S) RNA?
) (S) (DEGRAD? OR CLEAV?)) OR (HERNA?(S) (DEGRAD? OR CLEAV?))

=> d rank

F1	69145	DGENE
F2	24883	GENBANK
F3	12510	USPATFULL
F4	5100	USGENE
F5	2334	BIOSIS
F6	1956	CAPLUS
F7	1890	USPAT2
F8	1729	SCISEARCH
F9	1510	LIFESCI
F10	1361	ESBIOBASE
F11	1314	BIOTECHABS
F12	1314	BIOTECHDS
F13	1301	MEDLINE
F14	1171	WPIDS
F15	1171	WPINDEX
F16	1036	EMBASE
F17	852	IFIPAT
F18	729	CABA
F19	660	BIOTECHNO
F20	626	PASCAL
F21	402	PROMT
F22	368	AGRICOLA
F23	281	TOXCENTER
F24	236	BIOENG

F25	212	DISSABS
F26	212	USPATOLD
F27	113	PCTGEN
F28	97	NLDB
F29	87	DRUGU
F30	86	AQUASCI
F31	70	FROSTI
F32	38	EMBAL
F33	33	DDFU
F34	32	CONFSCI
F35	31	FSTA
F36	30	CEABA-VTB
F37	21	OCEAN
F38	16	NTIS
F39	15	VETU
F40	14	PHIN
F41	14	WPIFV
F42	11	IPA
F43	10	CIN
F44	8	ADISINSIGHT
F45	8	ANTE
F46	6	CROPU
F47	6	WATER
F48	6	NAPRALERT
F49	5	DDFB
F50	5	DRUGB
F51	2	AQUALINE
F52	2	VETB
F53	1	ADISCTI
F54	1	ANABSTR
F55	1	CROPB
F56	1	HEALSAFE
F57	1	IMSPRODUCT
F58	1	IMSRESEARCH
F59	1	PHAR
F60	1	PHARMAML
F61	1	RDISCLOSURE

=> file f2-f13		SINCE FILE	TOTAL
COST IN U.S. DOLLARS		ENTRY	SESSION
FULL ESTIMATED COST		5.85	6.06

FILE 'GENBANK' ENTERED AT 12:04:43 ON 05 JUN 2008

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FILE 'MEDLINE' ENTERED AT 12:04:43 ON 05 JUN 2008

=> s dicer? or(dsrna?(s)(degrad? or cleav?)) or
((doubl?(s)strand?(s)rna?)(s)(degrad? or cleav?)) or (herna?(s)(degrad? or cleav?))
9 FILES SEARCHED...
L2 55888 DICER? OR(DSRNA?(S)(DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAND?(S)
) RNA?)(S)(DEGRAD? OR CLEAV?)) OR (HERNA?(S)(DEGRAD? OR CLEAV?))

=> s 12(s)(huma? or sapien?)
7 FILES SEARCHED...
L3 5818 L2(S)(HUMA? OR APIEN?)

=> s 13(s)(rnase#)
L4 637 L3(S)(RNASE#)

=> s 14(s)(bindin##)
L5 182 L4(S)(BINDIN##)

=> dup rem 15
DUPLICATE IS NOT AVAILABLE IN 'GENBANK, USGENE'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
PROCESSING COMPLETED FOR L5
L6 160 DUP REM L5 (22 DUPLICATES REMOVED)

=> d ti 16 1-160

L6 ANSWER 1 OF 160 USPATFULL on STN
TI System for High Production of Natural and Personalized Interferons

L6 ANSWER 2 OF 160 USPATFULL on STN
TI OLD-35 as an inflammatory agent

L6 ANSWER 3 OF 160 USPATFULL on STN
TI Methods and Materials Relating to Breast Cancer Diagnosis

L6 ANSWER 4 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Mutations in the U5 Region Adjacent to the Primer Binding Site Affect tRNA
Cleavage by Human Immunodeficiency Virus Type 1 Reverse Transcriptase In
Vivo

L6 ANSWER 5 OF 160 USPATFULL on STN
TI Human RNase H1 oligonucleotide compositions thereof

L6 ANSWER 6 OF 160 USPATFULL on STN
TI Methods and compositions for the specific inhibition of gene expression

by double-stranded RNA

L6 ANSWER 7 OF 160 USPATFULL on STN
TI Methods to treat or prevent hormone-resistant prostate cancer using siRNA specific for protocadherin-PC, or other inhibitors of protocadherin-PC expression or activity

L6 ANSWER 8 OF 160 USPATFULL on STN
TI Identification of aging genes through large-scale analysis

L6 ANSWER 9 OF 160 USPATFULL on STN
TI Compositions and methods for generating short double-stranded rna using mutated rnase III

L6 ANSWER 10 OF 160 USPATFULL on STN
TI Primers for synthesizing full-length cDNA and their use

L6 ANSWER 11 OF 160 USPATFULL on STN
TI Methods of degrading dsrna and synthesizing rna

L6 ANSWER 12 OF 160 USPATFULL on STN
TI RNA interference mediating small RNA molecules

L6 ANSWER 13 OF 160 USPATFULL on STN
TI BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VACCINIA REGULATORY GENES AND USES THEREOF

L6 ANSWER 14 OF 160 USPATFULL on STN
TI Preparation of antibody or an antibody fragment-targeted immunoliposomes for systemic administration of therapeutic or diagnostic agents and uses thereof

L6 ANSWER 15 OF 160 USPATFULL on STN
TI Anti-pathogen treatments

L6 ANSWER 16 OF 160 USPATFULL on STN
TI BIOINFORMATICALLY DETECTABLE GROUP OF NOVEL VACCINIA REGULATORY GENES AND USES THEREOF

L6 ANSWER 17 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New capture probe comprising a first adapter segment, a second adapter segment and an miRNA binding segment, useful for isolating miRNAs; DNA probe capture and immobilization for microRNA isolation

L6 ANSWER 18 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 1
TI Small-molecule activators of RNase L with broad-spectrum antiviral activity

L6 ANSWER 19 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 2
TI Identification of the gene encoding a type 1 RNase H with an N-terminal double-stranded RNA binding domain from a psychrotrophic bacterium

L6 ANSWER 20 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 3
TI Proteomic and functional analysis of Argonaute-containing mRNA-protein complexes in human cells

L6 ANSWER 21 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN DUPLICATE
TI Identification and biochemical analysis of a mitochondrial endonuclease of Podospora anserina related to curved-DNA binding proteins

L6 ANSWER 22 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

TI Evolutionary conservation of a unique amino acid sequence in human DICER protein essential for binding to Argonaute family proteins

L6 ANSWER 23 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN

TI Homodimeric Structure and Double-stranded RNA Cleavage Activity of the C-terminal RNase III Domain of Human Dicer

L6 ANSWER 24 OF 160 USPATFULL on STN

TI Methods for the identification, assessment, and treatment of patients with cancer therapy

L6 ANSWER 25 OF 160 USPATFULL on STN

TI Oligomeric compounds and compositions for use in modulation of pri-mirnas

L6 ANSWER 26 OF 160 USPATFULL on STN

TI Identification of gene expression by heart failure etiology

L6 ANSWER 27 OF 160 USPATFULL on STN

TI Cloning and characterization of microRNAs from rice

L6 ANSWER 28 OF 160 USPATFULL on STN

TI Dicer interacting proteins and uses therefor

L6 ANSWER 29 OF 160 USPATFULL on STN

TI Soluble rna polymerase protein and methods for the use thereof

L6 ANSWER 30 OF 160 USPATFULL on STN

TI Allele-specific RNA interference

L6 ANSWER 31 OF 160 USPATFULL on STN

TI Pharmaceutical compositions and methods useful for modulating angiogenesis, inhibiting metastasis and tumor fibrosis, and assessing the malignancy of colon cancer tumors

L6 ANSWER 32 OF 160 USPATFULL on STN

TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 33 OF 160 USPATFULL on STN

TI Methods and compositions for generating recombinant nucleic acid molecules

L6 ANSWER 34 OF 160 USPATFULL on STN

TI Means and methods for the specific modulation of target genes in the cns and the eye and methods for their identification

L6 ANSWER 35 OF 160 USPAT2 on STN

TI DICER INTERACTING PROTEINS AND USES THEREFOR

L6 ANSWER 36 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Composition for inhibiting proliferation of lung cancer exhibiting neuroendocrine differentiation, contains vector having DNA encoding small interfering RNA having sequence of human achaete scute homologue 1 mRNA, and carrier; vector-mediated small interfering RNA-encoding DNA transfer and expression in neuroendocrine differentiation-positive lung cancer for neuroendocrine differentiation-positive lung cancer proliferation inhibition and gene therapy

L6 ANSWER 37 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN

TI DUF283 domain of Dicer proteins has a double-stranded RNA-binding fold

L6 ANSWER 38 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 5

TI The role of PACT in the RNA silencing pathway

L6 ANSWER 39 OF 160 USPATFULL on STN

TI Polynucleotide compositions encoding S-adenosyl-L-methionine:phosphoethanolamine N-methyltransferase and methods for modulating lipid biosynthesis in plants

L6 ANSWER 40 OF 160 USPATFULL on STN

TI Modular design and construction of nucleic acid molecules, aptamer-derived nucleic acid constructs, RNA scaffolds, their expression, and methods of use

L6 ANSWER 41 OF 160 USPATFULL on STN

TI Oligomeric compounds and compositions for use in modulation small non-coding RNAs

L6 ANSWER 42 OF 160 USPATFULL on STN

TI Oligo-or polynucleotides

L6 ANSWER 43 OF 160 USPATFULL on STN

TI Composition and method for introduction of RNA interference sequences into targeted cells and tissues

L6 ANSWER 44 OF 160 USPATFULL on STN

TI RNA interference mediating small RNA molecules

L6 ANSWER 45 OF 160 USPATFULL on STN

TI Means and methods for the specific inhibition of genes in cells and tissue of the cns and/or eye

L6 ANSWER 46 OF 160 USPATFULL on STN

TI Methods and compositions for enhancing the efficacy and specificity of RNAi

L6 ANSWER 47 OF 160 USPATFULL on STN

TI Methods and compositions for enhancing the efficacy and specificity of RNAi

L6 ANSWER 48 OF 160 USPATFULL on STN

TI Methods of using mammalian RNase H and compositions thereof

L6 ANSWER 49 OF 160 USPATFULL on STN

TI Human RNase III and compositions and uses thereof

L6 ANSWER 50 OF 160 USPATFULL on STN

TI Cell death-related nucleases and their uses

L6 ANSWER 51 OF 160 USPATFULL on STN

TI Compositions and methods for preparing short RNA molecules and other nucleic acids

L6 ANSWER 52 OF 160 USPATFULL on STN

TI Acyl-nucleotide probes and methods of their synthesis and use in proteomic analysis

L6 ANSWER 53 OF 160 USPATFULL on STN

TI Syndecans and angiogenesis

L6 ANSWER 54 OF 160 USPATFULL on STN

TI DECREASING GENE EXPRESSION IN A MAMMALIAN SUBJECT IN VIVO VIA AAV-MEDIATED RNAi EXPRESSION CASSETTE TRANSFER

L6 ANSWER 55 OF 160 USPAT2 on STN
TI Cell death-related nucleases and their uses

L6 ANSWER 56 OF 160 USPAT2 on STN
TI Acyl-nucleotide probes and methods of their synthesis and use in proteomic analysis

L6 ANSWER 57 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New composition comprising modified nuclease, useful for treating or preventing a viral disease or a non-viral disease, e.g. Alzheimer disease, Parkinson disease, multiple sclerosis or age-related dementia; the use of a recombinant nuclease and peptide nucleic acid in a composition for a neurodegenerative disease gene therapy application

L6 ANSWER 58 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New oligomeric compound that can hybridize with or sterically interfere with nucleic acid molecules comprising or encoding small non-coding RNA targets, useful for treating e.g., cancer and diabetes; vector-mediated human ERK5 protein-specific small interfering RNA and antisense oligonucleotide administration and expression in stem cell for use in disease gene therapy and RNA interference

L6 ANSWER 59 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Inactivating a virus (e.g. HCV) in a patient to treat the viral infection comprises administering to the patient a modified small interfering RNA in an amount to inactivate the virus; virus replication inhibition using RNA interference for use in gene therapy

L6 ANSWER 60 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN
TI Normal microRNA maturation and germ-line stem cell maintenance requires Loquacious, a double-stranded RNA-binding domain protein

L6 ANSWER 61 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 6
TI TRBP recruits the Dicer complex to Ago2 for microRNA processing and gene silencing

L6 ANSWER 62 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 7
TI Structural basis for 5'-end-specific recognition of guide RNA by the A. fulgidus Piwi protein

L6 ANSWER 63 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Normal microRNA Maturation and Germ-Line Stem Cell Maintenance Requires Loquacious, a Double-Stranded RNA-Binding Domain Protein

L6 ANSWER 64 OF 160 USPATFULL on STN
TI Methods of using mammalian RNase H and compositions thereof

L6 ANSWER 65 OF 160 USPATFULL on STN
TI Modulation of PAI-1 mRNA-binding protein expression

L6 ANSWER 66 OF 160 USPATFULL on STN
TI Expression profiles for breast cancer and methods of use

L6 ANSWER 67 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 68 OF 160 USPATFULL on STN

TI Human RNase III and compositions and uses thereof

L6 ANSWER 69 OF 160 USPATFULL on STN

TI Human RNase III and compositions and uses thereof

L6 ANSWER 70 OF 160 USPATFULL on STN

TI Human RNase H1 and oligonucleotide compositions thereof

L6 ANSWER 71 OF 160 USPATFULL on STN

TI Anti-pathogen treatments

L6 ANSWER 72 OF 160 USPAT2 on STN

TI RNA interference mediating small RNA molecules

L6 ANSWER 73 OF 160 USPAT2 on STN

TI RNA interference mediating small RNA molecules

L6 ANSWER 74 OF 160 USPAT2 on STN

TI Anti-pathogen treatments

L6 ANSWER 75 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI New RNase resistant small interfering RNA, useful for treating viral infections, e.g., hepatitis C, influenza virus or coronavirus infection; small interfering RNA transfer and expression in host cell for RNA interference and gene therapy

L6 ANSWER 76 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN

TI Making a cell or multicellular organism with resistance to a viral pathogen susceptible to infect the cell or organism by genetically modifying the cell or organism to utilize polynucleic acid molecule or viral RNA transcript as a template; transgenic plant construction using genetically modified cell and polynucleic acid molecule for use in disease-resistance

L6 ANSWER 77 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 8

TI Two Modes of HIV-1 Polypurine Tract Cleavage Are Affected by Introducing Locked Nucleic Acid Analogs into the (-) DNA Template

L6 ANSWER 78 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 9

TI The Drosha-DGCR8 complex in primary microRNA processing

L6 ANSWER 79 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 10

TI Single Processing Center Models for Human Dicer and Bacterial RNase III

L6 ANSWER 80 OF 160 USPATFULL on STN

TI Human RNase H1 and oligonucleotide compositions thereof

L6 ANSWER 81 OF 160 USPATFULL on STN

TI MDA-7 proteins and methods of use thereof

L6 ANSWER 82 OF 160 USPATFULL on STN

TI Syndecans and angiogenesis

L6 ANSWER 83 OF 160 USPATFULL on STN

TI 207 human secreted proteins

L6 ANSWER 84 OF 160 USPATFULL on STN

TI Compositions and methods for the therapy and diagnosis of colon cancer

L6 ANSWER 85 OF 160 USPATFULL on STN

TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 86 OF 160 USPATFULL on STN
TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 87 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 88 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 89 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 90 OF 160 USPATFULL on STN
TI Compositions and methods for the therapy and diagnosis of pancreatic cancer

L6 ANSWER 91 OF 160 USPATFULL on STN
TI Human RNase III and compositions and uses thereof

L6 ANSWER 92 OF 160 USPAT2 on STN
TI Genes displaying enhanced expression during cellular senescence and terminal cell differentiation and uses thereof

L6 ANSWER 93 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Reducing expression of target gene in cell, by incubating dsRNA corresponding to part of target gene with effective amount of composition comprising RNase III domain, and transfecting siRNA into cell; involving DNA primer, polymerase chain reaction and RNA-polymerase

L6 ANSWER 94 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New nucleobase oligomers that inhibit expression of inhibitor of apoptosis gene, useful for treating cancer and other lymphoproliferative disorders by inducing apoptosis; antisense oligonucleotide or dsRNA transfer and expression in host cell for cancer gene therapy

L6 ANSWER 95 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 11
TI Degradation of Double-Stranded RNA by Human Pancreatic Ribonuclease: Crucial Role of Noncatalytic Basic Amino Acid Residues

L6 ANSWER 96 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN
TI Identification of eight members of the Argonaute family in the human genome

L6 ANSWER 97 OF 160 USPATFULL on STN
TI METHOD FOR GENERATING A SUBTRACTED CDNA LIBRARY AND USES OF THE GENERATED LIBRARY

L6 ANSWER 98 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 99 OF 160 USPATFULL on STN
TI Human RNase III and compositions and uses thereof

L6 ANSWER 100 OF 160 USPATFULL on STN
TI Human RNase H1 mutants

L6 ANSWER 101 OF 160 USPATFULL on STN
TI Compositions and methods for the therapy and diagnosis of colon cancer

L6 ANSWER 102 OF 160 USPATFULL on STN

TI Compositions and methods for the therapy and diagnosis of ovarian cancer

L6 ANSWER 103 OF 160 USPAT2 on STN
TI MDA-7 nucleic acid molecules and pharmaceutical compositions thereof

L6 ANSWER 104 OF 160 USPAT2 on STN
TI Human RNase III and compositions and uses thereof

L6 ANSWER 105 OF 160 USPAT2 on STN
TI Human RNase H1 mutants

L6 ANSWER 106 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Novel dynamic action reference tool (DART) comprising a molecular shaft covalently linked to a linkage polypeptide covalently linked to a molecular point, useful for isolating and analyzing nucleic acids, polypeptides;
dynamic action reference tool and vector expression in host cell for use in disease gene therapy

L6 ANSWER 107 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Novel human RNase H1 polypeptide comprising mutations compared to wild type human RNase H1 useful for inhibiting expression of selected protein by antisense oligonucleotide targeted to RNA encoding selected protein;
vector plasmid pET17b-mediated gene transfer and expression in host cell for use in gene therapy

L6 ANSWER 108 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Generating mRNA-cDNA hybrids for suppressing cancer-related genes, or treating or preventing microbe related genes, comprises thermocycling steps of promoter-linked double-stranded cDNA or RNA synthesis;
useful for gene therapy, high throughput screening, DNA microarray analysis and functional genomics

L6 ANSWER 109 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Regulating gene expression in plants for controlling gene silencing, comprises altering the transcription or translation of an endonuclease nucleotide sequence encoding a polypeptide comprising an exonuclease domain;
Arabidopsis sp. transgenic plant and seed construction involving vector-mediated beta-glucuronidase gene transfer and expression in plant cell

L6 ANSWER 110 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Probes for detecting target nucleotide sequence in sample, has sequence that forms hairpin structure having a double-stranded segment and single-stranded loop collectively forming region complementary to target sequence;
oligonucleotide DNA probe, RNA probe, peptide nucleic acid probe for detecting target sequence in a sample and for transcription and/or DNA amplification of probe sequence

L6 ANSWER 111 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI New synthetic oligomeric compound that is specifically hybridizable with a preselected RNA target, useful for treating an organism having a disease characterized by the undesired production of a protein;
RNA-specific oligonucleotide transfer and expression in host cell for gene therapy

L6 ANSWER 112 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN
TI Human Dicer preferentially cleaves dsRNAs at their termini without a requirement for ATP

L6 ANSWER 113 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN
TI Ribonuclease activity and RNA binding of recombinant human Dicer

L6 ANSWER 114 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 12
TI Control of developmental timing by small temporal RNAs: a paradigm for RNA-mediated regulation of gene expression

L6 ANSWER 115 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Mouse ribonuclease III. cDNA structure, expression analysis, and chromosomal location

L6 ANSWER 116 OF 160 USPATFULL on STN
TI Virus resistant plants expressing animal cell-derived (2'-5')oligoadenylate synthetase and ribonuclease L and A method for creating the same

L6 ANSWER 117 OF 160 BIOTECHDS COPYRIGHT 2008 THOMSON REUTERS on STN
TI Cobra Venom Factor 1 polypeptides which are analogs of Complement Component C3, useful for identifying compounds that may be used to modulate the complement system;
snake venom production involving vector plasmid pSPORT-mediated gene transfer for expression in host cell e.g. Escherichia coli

L6 ANSWER 118 OF 160 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
DUPLICATE 13
TI Investigating the structure of human RNase H1 by site-directed mutagenesis.

L6 ANSWER 119 OF 160 USPATFULL on STN
TI Oligoribonucleotides and ribonucleases for cleaving RNA

L6 ANSWER 120 OF 160 USPATFULL on STN
TI Uses of mda-6

L6 ANSWER 121 OF 160 USPATFULL on STN
TI Animal 2-5A-dependent RNases and encoding sequences therefor

L6 ANSWER 122 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 14
TI Activation of the Interferon-Inducible (2'-5') Oligoadenylate Synthetase by the Epstein-Barr Virus RNA, EBER-1

L6 ANSWER 123 OF 160 USPATFULL on STN
TI Human 26S proteasome subunit components

L6 ANSWER 124 OF 160 USPATFULL on STN
TI Peptidyl derivatives as inhibitors of pro-apoptotic cysteine proteinases

L6 ANSWER 125 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN
TI The 2-5A system: Modulation of viral and cellular processes through acceleration of RNA degradation

L6 ANSWER 126 OF 160 USPATFULL on STN
TI Method for generating a subtracted cDNA library and uses of the generated library

L6 ANSWER 127 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 15
TI Catalytic cleavage of an RNA target by 2-5A antisense and RNase L

L6 ANSWER 128 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Induction of apoptotic nuclei by interferon- gamma and by predesquamin in

cultured keratinocytes

L6 ANSWER 129 OF 160 SCISEARCH COPYRIGHT (c) 2008 The Thomson Corporation
on STN DUPLICATE 16
TI HIV-1 REVERSE TRANSCRIPTASE-ASSOCIATED RNASE-H CLEAVES RNA/RNA IN ARRESTED
COMPLEXES - IMPLICATIONS FOR THE MECHANISM BY WHICH RNASE-H DISCRIMINATES
BETWEEN RNA/RNA AND RNA/DNA

L6 ANSWER 130 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Localization of the interferon-induced, 2'-5A-Dependent RNase gene (RNS4)
to human chromosome 1q25

L6 ANSWER 131 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN
TI Double-stranded RNA-dependent RNase activity associated with human
immunodeficiency virus type 1 reverse transcriptase.

L6 ANSWER 132 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genomic Islands in the Pathogenic Filamentous Fungus
Aspergillus fumigatus
TITLE (TI): Direct Submission

L6 ANSWER 133 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genomic analysis of Bartonella identifies type IV
secretion systems as host adaptability factors
TITLE (TI): Direct Submission

L6 ANSWER 134 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete sequence of Clostridium phytofermentans ISDg
TITLE (TI): Direct Submission

L6 ANSWER 135 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome sequence of Schizosaccharomyces pombe
TITLE (TI): Direct Submission

L6 ANSWER 136 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The Chlamydomonas genome reveals the evolution of key
animal and plant functions
TITLE (TI): Direct Submission

L6 ANSWER 137 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome sequence of Schizosaccharomyces pombe
TITLE (TI): Direct Submission

L6 ANSWER 138 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Comparative genomics of trypanosomatid parasitic
protozoa
TITLE (TI): The Genome of the African Trypanosome Trypanosoma
brucei
TITLE (TI): Direct Submission

L6 ANSWER 139 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome sequence of a proteolytic (Group I) Clostridium
botulinum strain Hall A and comparative analysis of the
clostridial genomes

TITLE (TI): Direct Submission

L6 ANSWER 140 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Comparative genomics of trypanosomatid parasitic protozoa

TITLE (TI): The Genome of the African Trypanosome *Trypanosoma brucei*

TITLE (TI): Sequencing, closure, and annotation of *Trypanosoma brucei* chromosomes 2 through 8

TITLE (TI): Direct Submission

L6 ANSWER 141 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Comparative genomics of trypanosomatid parasitic protozoa

TITLE (TI): The Genome of the African Trypanosome *Trypanosoma brucei*

TITLE (TI): Sequencing, closure, and annotation of *Trypanosoma brucei* chromosomes 2 through 8

TITLE (TI): Direct Submission

L6 ANSWER 142 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene *micF* and its target *ompF* in *Yersinia* species

TITLE (TI): The Complete Genome Sequence and Comparative Genome Analysis of the High Pathogenicity *Yersinia enterocolitica* Strain 8081

TITLE (TI): Direct Submission

L6 ANSWER 143 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete DNA sequence of a serogroup A strain of *Neisseria meningitidis* Z2491

TITLE (TI): Direct Submission

L6 ANSWER 144 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete genome of the mutualistic, N2-fixing grass endophyte *Azoarcus* sp. strain BH72

TITLE (TI): Direct Submission

L6 ANSWER 145 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The multidrug-resistant human pathogen *Clostridium difficile* has a highly mobile, mosaic genome

TITLE (TI): The multidrug resistant human pathogen *Clostridium difficile* has a highly mobile, mosaic genome

TITLE (TI): Direct Submission

L6 ANSWER 146 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete Sequence of Chromosome 1 of *Rhodobacter sphaeroides* 2.4.1

TITLE (TI): Direct Submission

L6 ANSWER 147 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete sequence of *Psychrobacter arcticum* 273-4

TITLE (TI): Direct Submission

L6 ANSWER 148 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Extensive DNA inversions in the *B. fragilis* genome control variable gene expression

TITLE (TI): Direct Submission

L6 ANSWER 149 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The map-based sequence of the rice genome

TITLE (TI): The Rice Annotation Project Database (RAP-DB): hub for *Oryza sativa* ssp. *japonica* genome information

TITLE (TI): Curated genome annotation of *Oryza sativa* ssp. *japonica* and comparative genome analysis with *Arabidopsis thaliana*

TITLE (TI): *Oryza sativa* nipponbare(GA3) genomic DNA, chromosome 3

TITLE (TI): The First Rice Annotation Project Meeting (RAP1)

TITLE (TI): Direct Submission

L6 ANSWER 150 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome of the heartwater agent *Ehrlichia ruminantium* contains multiple tandem repeats of actively variable copy number

TITLE (TI): Direct Submission

L6 ANSWER 151 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome sequence of *Yersinia pestis*, the causative agent of plague

TITLE (TI): Annotation and evolutionary relationships of a small regulatory RNA gene *micF* and its target *ompF* in *Yersinia* species

TITLE (TI): Direct Submission

L6 ANSWER 152 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): The genome sequence of the food-borne pathogen *Campylobacter jejuni* reveals hypervariable sequences

TITLE (TI): Re-annotation and re-analysis of the *Campylobacter jejuni* NCTC11168 genome sequence

TITLE (TI): Direct Submission

TITLE (TI): Direct Submission

L6 ANSWER 153 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genomic plasticity of the causative agent of melioidosis, *Burkholderia pseudomallei*

TITLE (TI): Direct Submission

L6 ANSWER 154 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts

TITLE (TI): Direct Submission

L6 ANSWER 155 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts

TITLE (TI): Direct Submission

L6 ANSWER 156 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts
 TITLE (TI): Direct Submission

L6 ANSWER 157 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts
 TITLE (TI): Direct Submission

L6 ANSWER 158 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Genome evolution in yeasts
 TITLE (TI): Direct Submission

L6 ANSWER 159 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Complete genomes of two clinical *Staphylococcus aureus* strains: evidence for the rapid evolution of virulence and drug resistance
 TITLE (TI): Direct Submission

L6 ANSWER 160 OF 160 GENBANK® COPYRIGHT 2008 on STN

TITLE (TI): Sequencing and analysis of the genome of the Whipple's disease bacterium *Tropheryma whipplei*
 TITLE (TI): Direct Submission

=> d ibib abs 16 6 9 11 12 22 23 28 37 95 99 113

L6 ANSWER 6 OF 160 USPATFULL on STN
 ACCESSION NUMBER: 2007:303223 USPATFULL
 TITLE: Methods and compositions for the specific inhibition of gene expression by double-stranded RNA
 INVENTOR(S): Rossi, John J., Alta Loma, CA, UNITED STATES
 Behlke, Mark A., Coralville, IA, UNITED STATES
 Kim, Dongho, Los Angeles, CA, UNITED STATES
 PATENT ASSIGNEE(S): City of Hope, Duarte, CA, UNITED STATES (U.S. corporation)
 Integrated DNA Technologies, Inc., Coralville, IA, UNITED STATES (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070265220	A1	20071115
APPLICATION INFO.:	US 2007-797216	A1	20070501 (11)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2005-79906, filed on 15 Mar 2005, PENDING		

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-553487P	20040315 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800, WASHINGTON, DC, 20005, US	

NUMBER OF CLAIMS: 14
 EXEMPLARY CLAIM: 1
 NUMBER OF DRAWINGS: 31 Drawing Page(s)
 LINE COUNT: 4653
 CAS INDEXING IS AVAILABLE FOR THIS PATENT.
 AB The invention is directed to compositions and methods for selectively reducing the expression of a gene product from a desired target gene in

a cell, as well as for treating diseases caused by the expression of the gene. More particularly, the invention is directed to compositions that contain double stranded RNA ("dsRNA"), and methods for preparing them, that are capable of reducing the expression of target genes in eukaryotic cells. The dsRNA has a first oligonucleotide sequence that is between 25 and about 30 nucleotides in length and a second oligonucleotide sequence that anneals to the first sequence under biological conditions. In addition, a region of one of the sequences of the dsRNA having a sequence length of at least 19 nucleotides is sufficiently complementary to a nucleotide sequence of the RNA produced from the target gene to trigger the destruction of the target RNA by the RNAi machinery.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 9 OF 160 USPATFULL on STN
ACCESSION NUMBER: 2007:177863 USPATFULL
TITLE: Compositions and methods for generating short double-stranded rna using mutated rnase III
INVENTOR(S): Maina, Claude V., West Newbury, NY, UNITED STATES
Tzertzinis, George, Cambridge, MA, UNITED STATES
Kumar, Sanjay, Ipswich, MA, UNITED STATES
PATENT ASSIGNEE(S): New England Biolabs, Inc., Ipswich, MA, UNITED STATES, 01938 (U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070155684	A1	20070705
APPLICATION INFO.:	US 2005-586720	A1	20050121 (10)
	WO 2005-US2029		20050121
			20060720 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-538805P	20040123 (60)
	US 2004-543880P	20040212 (60)
	US 2004-572240P	20040518 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	HARRIET M. STRIMPEL, NEW ENGLAND BIOLABS, INC., 240 COUNTY ROAD, IPSWICH, MA, 01938-2723, US	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	17 Drawing Page(s)	
LINE COUNT:	1831	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Compositions and methods are provided for preparing an hsiRNA mixture and for silencing of gene expression in vivo. The composition relates to a mutant RnaseIII. The methods are directed to reacting a preparation of dsRNA with an effective amount of a mutant RNase III to produce the hsiRNA mixture.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 11 OF 160 USPATFULL on STN
ACCESSION NUMBER: 2007:120911 USPATFULL
TITLE: Methods of degrading dsrna and synthesizing rna
INVENTOR(S): Sagawa, Hiroaki, Shiga, JAPAN
Tomono, Jun, Okayama, JAPAN
Ueno, Harumi, Shiga, JAPAN
Kato, Ikunoshin, Shiga, JAPAN
PATENT ASSIGNEE(S): TAKARA BIO INC., Otsu-shi, JAPAN, 520-2193 (non-U.S.)

corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070105113	A1	20070510
APPLICATION INFO.:	US 2004-567731	A1	20040810 (10)
	WO 2004-JP11480		20040810
			20060210 PCT 371 date

	NUMBER	DATE
PRIORITY INFORMATION:	JP 2003-293553	20030814
	JP 2003-342126	20030930
	JP 2003-409639	20031208
	JP 2004-86129	20040324

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: BROWDY AND NEIMARK, P.L.L.C., 624 NINTH STREET, NW, SUITE 300, WASHINGTON, DC, 20001-5303, US
NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
LINE COUNT: 3027

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A protein having an activity of degrading a dsRNA, namely, being capable of acting on a long-chain dsRNA to form a dsRNA of a definite length; a method of efficiently preparing a dsRNA of a definite length which comprises treating a dsRNA with the protein having an activity of degrading a dsRNA in the coexistence of a protein having an activity of binding to a nucleic acid such as a protein having an RNA-binding activity; and a method of using the protein having an activity of binding to a nucleic acid to elevate the efficiency in an RNA synthesis reaction typified by dsRNA synthesis.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 12 OF 160 USPATFULL on STN
ACCESSION NUMBER: 2007:107472 USPATFULL
TITLE: RNA interference mediating small RNA molecules
INVENTOR(S): Tuschl, Thomas, New York, NY, UNITED STATES
Elbashir, Sayda Mahgoub, Cambridge, MA, UNITED STATES
Lendeckel, Winfried, Hohengandern, GERMANY, FEDERAL
REPUBLIC OF
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft zur Förderung der
Wissenschaften e. V., Munchen, GERMANY, FEDERAL
REPUBLIC OF (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20070093445	A1	20070426
APPLICATION INFO.:	US 2006-634129	A1	20061206 (11)
RELATED APPLN. INFO.:	Division of Ser. No. US 2004-433050, filed on 26 Jul 2004, PENDING A 371 of International Ser. No. WO 2001-EP13968, filed on 29 Nov 2001		

	NUMBER	DATE
PRIORITY INFORMATION:	EP 2000-126325	20001201
	US 2001-279661P	20010330 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	ROTHWELL, FIGG, ERNST & MANBECK, P.C., 1425 K STREET, N.W., SUITE 800, WASHINGTON, DC, 20005, US	

NUMBER OF CLAIMS: 29
EXEMPLARY CLAIM: 1
NUMBER OF DRAWINGS: 23 Drawing Page(s)
LINE COUNT: 2309

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Double-stranded RNA (dsRNA) induces sequence-specific post-transcriptional gene silencing in many organisms by a process known as RNA interference (RNAi). Using a *Drosophila* *in vitro* system, we demonstrate that 19-23 nt short RNA fragments are the sequence-specific mediators of RNAi. The short interfering RNAs (siRNAs) are generated by an RNase III-like processing reaction from long dsRNA. Chemically synthesized siRNA duplexes with overhanging 3' ends mediate efficient target RNA cleavage in the lysate, and the cleavage site is located near the center of the region spanned by the guiding siRNA. Furthermore, we provide evidence that the direction of dsRNA processing determines whether sense or antisense target RNA can be cleaved by the produced siRNP complex.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 22 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2007:683471 CAPLUS
DOCUMENT NUMBER: 147:252868
TITLE: Evolutionary conservation of a unique amino acid sequence in human DICER protein essential for binding to Argonaute family proteins
AUTHOR(S): Sasaki, Takashi; Shimizu, Nobuyoshi
CORPORATE SOURCE: Department of Molecular Biology, Keio University School of Medicine, Shinjuku-ku, Tokyo, 160-8582, Japan
SOURCE: Gene (2007), 396(2), 312-320
CODEN: GENED6; ISSN: 0378-1119
PUBLISHER: Elsevier B.V.
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The Argonaute family and DICER proteins are major key proteins involved in the RNA-mediated gene silencing mechanism of various species. In this mechanism, cleavage of mRNAs (mRNA) or suppression of mRNA translation takes place via small RNAs that are uniquely processed by DICER. Previously, human Argonaute family proteins were demonstrated to bind to DICER. This study identified a unique amino acid sequence of 127 amino acids in the RIBOC-A domain of human DICER protein as a "binding site" to Argonaute proteins. Comparative genomics anal. revealed that this unique amino acid sequence is highly conserved in the vertebrates, but not found in the non-vertebrate species. Significant difference in the RIBOC-A domain of DICER protein between vertebrate and non-vertebrate species may help exploring the functional complexity in the RNA-mediated gene silencing mechanism.

REFERENCE COUNT: 50 THERE ARE 50 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 23 OF 160 Elsevier BIOBASE COPYRIGHT 2008 Elsevier Science B.V. on STN
ACCESSION NUMBER: 2007297926 ESBIOBASE
TITLE: Homodimeric Structure and Double-stranded RNA Cleavage Activity of the C-terminal RNase III Domain of Human Dicer
AUTHOR: Takeshita D.; Zenno S.; Lee W.C.; Nagata K.; Saigo K.; Tanokura M.
CORPORATE SOURCE: M. Tanokura, Department of Applied Biological Chemistry, Graduate School of Agricultural and Life Sciences, University of Tokyo, 1-1-1 Yayoi, Bunkyo-ku,

Tokyo, 113-8657, Japan.
E-mail: amtanok@mail.ecc.u-tokyo.ac.jp
SOURCE: Journal of Molecular Biology, (16 NOV 2007), 374/1
(106-120), 48 reference(s)
CODEN: JMOBAK ISSN: 0022-2836
PUBLISHER ITEM IDENT.: S0022283607011680
DOCUMENT TYPE: Journal; Article
COUNTRY: United Kingdom
LANGUAGE: English
SUMMARY LANGUAGE: English
AB Human Dicer contains two RNase III domains (RNase IIIa and RNase IIIb) that are responsible for the production of short interfering RNAs and microRNAs. These small RNAs induce gene silencing known as RNA interference. Here, we report the crystal structure of the C-terminal RNase III domain (RNase IIIb) of human Dicer at 2.0 Å resolution. The structure revealed that the RNase IIIb domain can form a tightly associated homodimer, which is similar to the dimers of the bacterial RNase III domains and the two RNase III domains of Giardia Dicer. Biochemical analysis showed that the RNase IIIb homodimer can cleave double-stranded RNAs (dsRNAs), and generate short dsRNAs with 2 nt 3' overhang, which is characteristic of RNase III products. The RNase IIIb domain contained two magnesium ions per monomer around the active site. The distance between two Mg-1 ions is approximately 20.6 Å, almost identical with those observed in bacterial RNase III enzymes and Giardia Dicer, while the locations of two Mg-2 ions were not conserved at all. We presume that Mg-1 ions act as catalysts for dsRNA cleavage, while Mg-2 ions are involved in RNA binding. .COPYRGT. 2007 Elsevier Ltd.
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L6 ANSWER 28 OF 160 USPATFULL on STN
ACCESSION NUMBER: 2006:267680 USPATFULL
TITLE: Dicer interacting proteins and uses therefor
INVENTOR(S): Mello, Craig C., Shrewsbury, MA, UNITED STATES
PATENT ASSIGNEE(S): UNIVERSITY OF MASSACHUSETTS, Boston, MA, UNITED STATES
(U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20060228361	A1	20061012
	US 20070031417	A2	20070208
APPLICATION INFO.:	US 2005-107336	A1	20050414 (11)

	NUMBER	DATE
PRIORITY INFORMATION:	US 2004-562420P	20040414 (60)
DOCUMENT TYPE:	Utility	
FILE SEGMENT:	APPLICATION	
LEGAL REPRESENTATIVE:	LAHIVE & COCKFIELD, 28 STATE STREET, BOSTON, MA, 02109, US	
NUMBER OF CLAIMS:	30	
EXEMPLARY CLAIM:	1	
NUMBER OF DRAWINGS:	11 Drawing Page(s)	
LINE COUNT:	11730	

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB Dicer (e.g., DCR-1) interactors are disclosed as are methods to positively or negatively modulate Dicer activity. Uses of Dicer interactors as drug targets are featured. Also featured are uses of Dicer interactors and modulators of same to modulate various Dicer

functions in vitro, in cell cultures, and in vivo.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 37 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:1189497 CAPLUS
DOCUMENT NUMBER: 146:158125
TITLE: DUF283 domain of Dicer proteins has a double-stranded RNA-binding fold
AUTHOR(S): Dlakic, Mensur
CORPORATE SOURCE: Department of Microbiology, Montana State University, Bozeman, MT, 59717, USA
SOURCE: Bioinformatics (2006), 22(22), 2711-2714
CODEN: BOINFP; ISSN: 1367-4803
PUBLISHER: Oxford University Press
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Two RNases, Dicer and Argonaute, are at the heart of the RNA interference (RNAi) mol. machinery responsible for gene silencing. Both RNases contain multiple domains, most of which have been characterized or have functions that can be predicted based on sequence comparisons. However, Dicers of higher eukaryotes contain the domain known as DUF283 which at present has no assigned role. Using sensitive profile-profile comparisons, the authors detected a divergent double-stranded RNA-binding domain coinciding with the DUF283 of Dicer. This finding has potential implications regarding the mechanistic role of Dicer in RNAi.
REFERENCE COUNT: 39 THERE ARE 39 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 95 OF 160 LIFESCI COPYRIGHT 2008 CSA on STN DUPLICATE 11
ACCESSION NUMBER: 2004:65552 LIFESCI
TITLE: Degradation of Double-Stranded RNA by Human Pancreatic Ribonuclease: Crucial Role of Noncatalytic Basic Amino Acid Residues
AUTHOR: Sorrentino, S.; Naddeo, M.; Russo, A.; D'Alessio, G.
CORPORATE SOURCE: Department of Biological Chemistry, University Federico II of Naples, Naples, Italy
SOURCE: Biochemistry (Washington) [Biochemistry (Wash.)], (20030902) vol. 42, no. 34, pp. 10182-10190.
ISSN: 0006-2960.
DOCUMENT TYPE: Journal
FILE SEGMENT: N
LANGUAGE: English
SUMMARY LANGUAGE: English
AB Under physiological salt conditions double-stranded (ds) RNA is resistant to the action of most mammalian extracellular ribonucleases (RNases). However, some pancreatic-type RNases are able to degrade dsRNA under conditions in which the activity of bovine RNase A, the prototype of the RNase superfamily, is essentially undetectable. Human pancreatic ribonuclease (HP-RNase) is the most powerful enzyme to degrade dsRNA within the tetrapod RNase superfamily, being 500-fold more active than the orthologous bovine enzyme on this substrate. HP-RNase has basic amino acids at positions where RNase A shows instead neutral residues. We found by modeling that some of these basic charges are located on the periphery of the substrate binding site. To verify the role of these residues in the cleavage of dsRNA, we prepared four variants of HP-RNase: R4A, G38D, K102A, and the triple mutant R4A/G38D/K102A. The overall structure and active site conformation of the variants were not significantly affected by the amino acid substitutions, as deduced from CD

spectra and activity on single-stranded RNA substrates. The kinetic parameters of the mutants with double-helical poly(A) times poly(U) as a substrate were determined, as well as their helix-destabilizing action on a synthetic DNA substrate. The results obtained indicate that the potent activity of HP-RNase on dsRNA is related to the presence of noncatalytic basic residues which cooperatively contribute to the binding and destabilization of the double-helical RNA molecule. These data and the wide distribution of the enzyme in different organs and body fluids suggest that HP-RNase has evolved to perform both digestive and nondigestive physiological functions.

L6 ANSWER 99 OF 160 USPATFULL on STN
 ACCESSION NUMBER: 2002:294558 USPATFULL
 TITLE: Human RNase III and compositions and uses thereof
 INVENTOR(S): Wu, Hongjiang, Carlsbad, CA, UNITED STATES
 Crooke, Stanley T., Carlsbad, CA, UNITED STATES

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 20020164601	A1	20021107
	US 6737512	B2	20040518
APPLICATION INFO.:	US 2001-900425	A1	20010706 (9)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 2000-479783, filed on 7 Jan 2000, PENDING Division of Ser. No. US 1997-870608, filed on 6 Jun 1997, PATENTED		
	Continuation-in-part of Ser. No. US 1996-659440, filed on 6 Jun 1996, PATENTED		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	APPLICATION		
LEGAL REPRESENTATIVE:	John W. Caldwell, WOODCOCK WASHBURN LLP, One Liberty Place-46th Floor, Philadelphia, PA, 19103		
NUMBER OF CLAIMS:	52		
EXEMPLARY CLAIM:	1		
NUMBER OF DRAWINGS:	2 Drawing Page(s)		
LINE COUNT:	1423		
CAS INDEXING IS AVAILABLE FOR THIS PATENT.			
AB	The present invention provides polynucleotides encoding human RNase III and polypeptides encoded thereby. Methods of using said polynucleotides and polypeptides are also provided.		

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

L6 ANSWER 113 OF 160 CAPLUS COPYRIGHT 2008 ACS on STN
 ACCESSION NUMBER: 2002:840867 CAPLUS
 DOCUMENT NUMBER: 138:119175
 TITLE: Ribonuclease activity and RNA binding of recombinant human Dicer
 AUTHOR(S): Provost, Patrick; Dishart, David; Doucet, Johanne; Frendewey, David; Samuelsson, Bengt; Radmark, Olof
 CORPORATE SOURCE: Department of Medical Biochemistry and Biophysics, Karolinska Institute, Stockholm, S-171 77, Swed.
 SOURCE: EMBO Journal (2002), 21(21), 5864-5874
 CODEN: EMJODG; ISSN: 0261-4189
 PUBLISHER: Oxford University Press
 DOCUMENT TYPE: Journal
 LANGUAGE: English
 AB RNA silencing phenomena, known as post-transcriptional gene silencing in plants, quelling in fungi, and RNA interference (RNAi) in animals, are mediated by double-stranded RNA (dsRNA) and mechanistically intersect at the RNase Dicer. Here, we report cloning and expression of the 218 kDa human Dicer, and characterization of its RNase

activity and dsRNA-binding properties. The recombinant enzyme generated .apprx.21-23 nucleotide products from dsRNA. Processing of the microRNA let-7 precursor by Dicer produced an apparently mature let-7 RNA. Mg2+ was required for dsRNase activity, but not for dsRNA binding, thereby uncoupling these reaction steps. ATP was dispensable for dsRNase activity in vitro. The Dicer·dsRNA complex formed at high KCl concns. was catalytically inactive, suggesting that ionic interactions are involved in dsRNA cleavage. The putative dsRNA-binding domain located at the C-terminus of Dicer was demonstrated to bind dsRNA in vitro. Human Dicer expressed in mammalian cells colocalized with calreticulin, a resident protein of the endoplasmic reticulum. Availability of the recombinant Dicer protein will help improve our understanding of RNA silencing and other Dicer-related processes.

REFERENCE COUNT: 52 THERE ARE 52 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d his

(FILE 'HOME' ENTERED AT 11:58:57 ON 05 JUN 2008)

INDEX 'ADISCTI, ADISINSIGHT, ADISNEWS, AGRICOLA, ANABSTR, ANTE, AQUALINE, AQUASCI, BIOENG, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA, CAPLUS, CEABA-VTB, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DISSABS, DRUGB, DRUGMONOG2, DRUGU, EMBAL, EMBASE, ...' ENTERED AT 11:59:20 ON 05 JUN 2008
SEA DICER? OR(DSRNA?(S) (DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAN

1 FILE ADISCTI
8 FILE ADISINSIGHT
368 FILE AGRICOLA
1 FILE ANABSTR
8 FILE ANTE
2 FILE AQUALINE
86 FILE AQUASCI
236 FILE BIOENG
2334 FILE BIOSIS
1314 FILE BIOTECHABS
1314 FILE BIOTECHDS
660 FILE BIOTECHNO
729 FILE CABA
1956 FILE CAPLUS
30 FILE CEABA-VTB
10 FILE CIN
32 FILE CONFSCI
1 FILE CROPB
6 FILE CROPU
5 FILE DDFB
33 FILE DDFU
69145 FILE DGENE
212 FILE DISSABS
5 FILE DRUGB
87 FILE DRUGU
38 FILE EMBAL
1036 FILE EMBASE
1361 FILE ESBIOBASE
70 FILE FROSTI
31 FILE FSTA
24883 FILE GENBANK
1 FILE HEALSAFE
852 FILE IFIPAT
1 FILE IMSPRODUCT
1 FILE IMSRESEARCH

1510	FILE LIFESCI
1301	FILE MEDLINE
16	FILE NTIS
21	FILE OCEAN
626	FILE PASCAL
113	FILE PCTGEN
1	FILE PHAR
1	FILE PHARMAML
14	FILE PHIN
402	FILE PROMT
1	FILE RDISCLOSURE
1729	FILE SCISEARCH
281	FILE TOXCENTER
5100	FILE USGENE
12510	FILE USPATFULL
212	FILE USPATOLD
1890	FILE USPAT2
2	FILE VETB
15	FILE VETU
6	FILE WATER
1171	FILE WPIDS
14	FILE WPIFV
1171	FILE WPINDEX
11	FILE IPA
6	FILE NAPRALERT
97	FILE NLDB
L1	QUE DICER? OR(DSRNA?(S) (DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRA

FILE 'GENBANK, USPATFULL, USGENE, BIOSIS, CAPLUS, USPAT2, SCISEARCH, LIFESCI, ESBIOBASE, BIOTECHDS, MEDLINE' ENTERED AT 12:04:43 ON 05 JUN 2008
L2 55888 S DICER? OR(DSRNA?(S) (DEGRAD? OR CLEAV?)) OR ((DOUBL?(S) STRAND?)
L3 5818 S L2(S) (HUMA? OR SAPIEN?)
L4 637 S L3(S) (RNASE#)
L5 182 S L4(S) (BINDIN##)
L6 160 DUP REM L5 (22 DUPLICATES REMOVED)

=> log h		
COST IN U.S. DOLLARS	SINCE FILE	TOTAL
	ENTRY	SESSION
FULL ESTIMATED COST	173.18	179.24
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL
	ENTRY	SESSION
CA SUBSCRIBER PRICE	-2.40	-2.40

SESSION WILL BE HELD FOR 120 MINUTES
 STN INTERNATIONAL SESSION SUSPENDED AT 12:20:39 ON 05 JUN 2008